

chain nodes :

11 12

ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18

chain bonds :

7-11 9-12 12-13

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-14 13-18 14-15 15-16  
16-17 17-18

exact/norm bonds :

5-7 6-10 7-8 7-11 8-9 9-10 12-13

exact bonds :

9-12 13-14 13-18 14-15 15-16 16-17 17-18

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 : 13 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS  
12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom

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NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered  
NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status data from INPADOC  
NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available  
NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded  
NEWS 7 MAR 02 GBFULL: New full-text patent database on STN  
NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced  
NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded  
NEWS 10 MAR 22 KOREPAT now updated monthly; patent information enhanced  
NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY  
NEWS 12 MAR 22 PATDPASPC - New patent database available  
NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags  
NEWS 14 APR 04 EPFULL enhanced with additional patent information and new fields  
NEWS 15 APR 04 EMBASE - Database reloaded and enhanced

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
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FILE 'HOME' ENTERED AT 15:56:55 ON 08 APR 2005

=> file reg  
COST IN U.S. DOLLARS

SINCE FILE TOTAL  
ENTRY SESSION

10/ 644,244

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 15:57:01 ON 08 APR 2005  
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STRUCTURE FILE UPDATES: 7 APR 2005 HIGHEST RN 848122-48-5  
DICTIONARY FILE UPDATES: 7 APR 2005 HIGHEST RN 848122-48-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

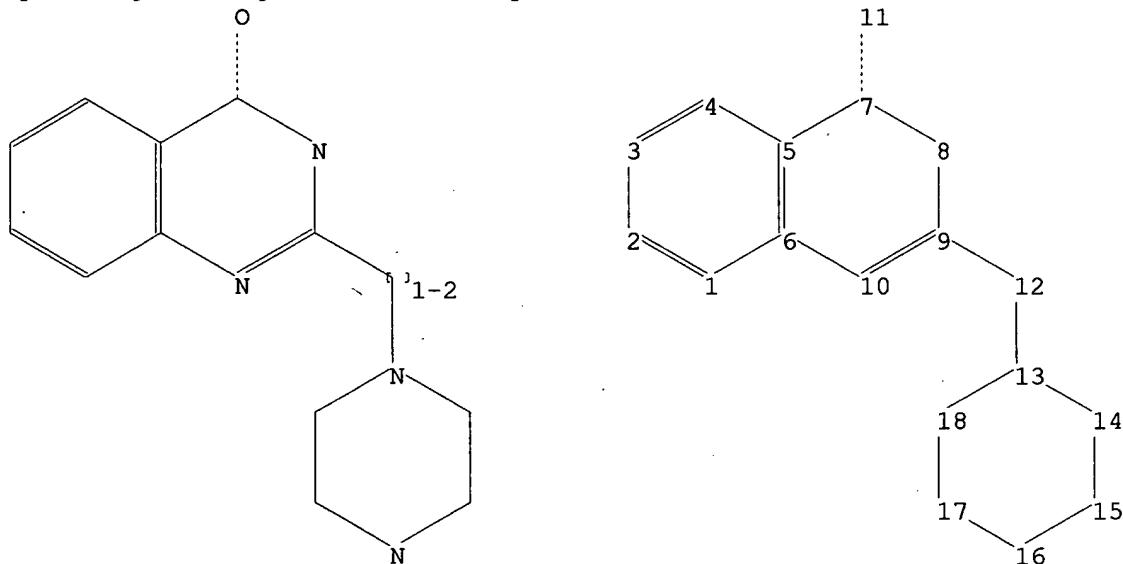
\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s quinazol?  
L1 273979 QUINAZOL?

=>  
Uploading C:\Program Files\Stnexp\Queries\10644244.str



chain nodes :

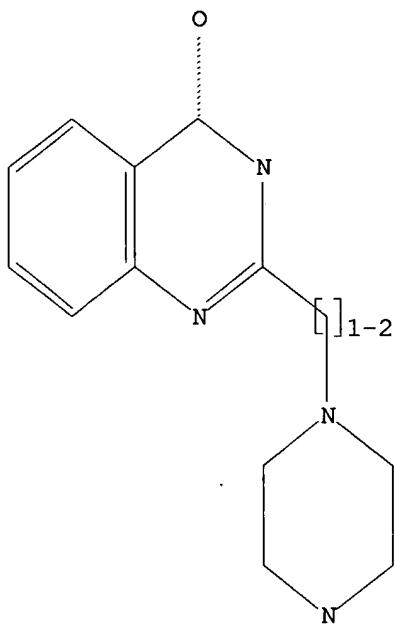
10/ 644,244

11 12  
ring nodes :  
1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18  
chain bonds :  
7-11 9-12 12-13  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-14 13-18 14-15 15-16  
16-17 17-18  
exact/norm bonds :  
5-7 6-10 7-8 7-11 8-9 9-10 12-13  
exact bonds :  
9-12 13-14 13-18 14-15 15-16 16-17 17-18  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6  
isolated ring systems :  
containing 1 : 13 :

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom

L2 STRUCTURE UPLOADED

=> d 12  
L2 HAS NO ANSWERS  
L2 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 12 sub=11  
ENTER SUBSET SEARCH SCOPE - SAMPLE, FULL, RANGE, OR (END):full  
FULL SUBSET SEARCH INITIATED 15:57:53 FILE 'REGISTRY'

10/ 644,244

FULL SUBSET SCREEN SEARCH COMPLETED - 3264 TO ITERATE

100.0% PROCESSED 3264 ITERATIONS 3148 ANSWERS  
SEARCH TIME: 00.00.01

L3 3148 SEA SUB=L1 SSS FUL L2

=> file caplus

COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	166.36	166.57

FILE 'CAPLUS' ENTERED AT 15:58:11 ON 08 APR 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 8 Apr 2005 VOL 142 ISS 16  
FILE LAST UPDATED: 7 Apr 2005 (20050407/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13  
L4 43 L3

=> d 14 1- ibib abs fhitstr  
YOU HAVE REQUESTED DATA FROM 43 ANSWERS - CONTINUE? Y/ (N) :y

L4 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:1156498 CAPLUS  
 DOCUMENT NUMBER: 142:93848  
 TITLE: Preparation of guanidino-substituted quinazolinone compounds as MC4-R agonists  
 INVENTOR(S): Boyce, Rustum S.; Aurrecochea, Natalia; Chu, Daniel; Smith, Aaron; Conlee, Christopher R.; Thompson, Brian D.; De Armas, Kuntz Judith; Russo, David L.; Barvin, Kevin K.; Thomson, Stephen A.; Swain, William R.; Du, Kien S.; Chaudier, Brian A.; Speake, Jason D.; Bishop, Michael J.  
 PATENT ASSIGNEE(S): Chiron Corporation, USA; Glaxosmithkline  
 SOURCE: PCI Int. Appl., 277 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004112793	A1	20041229	WO 2004-US15959	20040521
WO 2004112793	BI	20050110		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MD, NA, SD, SL, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG	US 2004-850967	20040521		
US 2005059662	A1	20050317	US 2004-850967	20040521
PRIORITY APPLN. INFO.:			US 2003-473317P	P 20030523
			US 2003-523336P	P 20031119
			US 2003-524492P	P 20031124

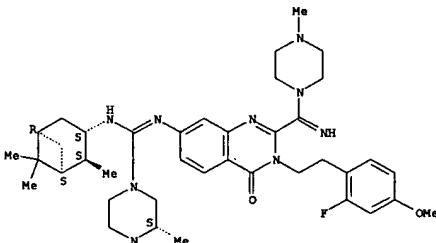
OTHER SOURCE(S): MARPAT 142:93848  
 GI

L4 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 against MC4-R and exhibited  $-\log EC50$  values above about 3. The compds. I are useful in treating MC4-R mediated diseases such as obesity and type II diabetes. The pharmaceutical compn. comprising the compd. I is disclosed.

IT 628326-00-1P  
 RL: PA (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of guanidino-substituted quinazolinone compds. as MC4-R agonists)

RN 628326-00-1 CAPLUS  
 CN 1-Piperazinecarboximidamide, N-[3-[2-(2-fluoro-4-methoxyphenyl)ethyl]-3,4-dihydro-2-[imino(4-methyl-1-piperazinyl)methyl]-4-oxo-7-quinazolinyl]-3-methyl-N-[(1S,2S,3S,5R)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

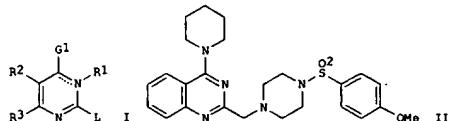
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB A variety of small mol., guanidine-containing mol., capable of acting as MC4-R agonists such as I-III (21 = CR4, N1 = Z2 = CR5, N2 = Z3 = CR6, N3 R1 = H, (un)substituted acylalkyl, heteroacylalkyl, aryl, heteroaryl, etc., R2 = H, alkyl, aryl, etc., R3 = H, (un)substituted acyl, aryl, etc., R4-R6 = H, Cl, I, F, Br, OH, etc., W = IV (wherein R11, R12 = H, (un)substituted alkyl, aryl, etc., at least one of R11 and R12 is (un)substituted heteroacylalkyl, R13 = H, (un)substituted acyl, aryl, etc., R14 = H, (un)substituted alkyl, cycloalkyl, etc., etc.) are provided. General procedures used in the synthesis of compds. I-III are described. E.g., a multi-step synthesis of (1S,2S,3S,5R)-V, was given. The exemplified compds. I-III were tested

L4 ANSWER 2 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:1127340 CAPLUS  
 DOCUMENT NUMBER: 142:74614  
 TITLE: Preparation of pyrimidine derivatives as modulators of ATP-binding cassette transporters  
 INVENTOR(S): Makings, Lewis R.; Singh, Ashvani K.; Miller, Mark T.; Hadic, Ruah, Sarah S.; Grootenhuis, Peter; Hamilton, Matthew; Hazelwood, Anna R.; Huang, Liming  
 PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA  
 SOURCE: PCT Int. Appl., 432 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004110104	A1	20041223	WO 2004-US17673	20040604
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MD, NA, SD, SL, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG	US 2004-862909	20040607		
US 200505967	A1	20050317	US 2003-476698P	P 20030606
PRIORITY APPLN. INFO.:			US 2003-500132P	P 20030904
			US 2003-520181P	P 20031114
			WO 2004-US17673	A 20040604

OTHER SOURCE(S): MARPAT 142:74614  
 GI

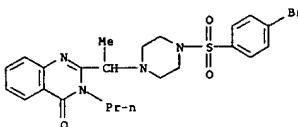


AB The present invention relates to compds. I (G1 = O, RA, ORA, SRA, NRAB (wherein RA, RB = VRV, or NRAB = (un)substituted 3-12 membered (un)saturated monocyclic or bicyclic ring having 0-4 heteroatoms selected from N, O, or S; V = a bond, alkylidene wherein up to two methylene units of V are optionally replaced by CO, CS, COCO, etc.; RV = halo, NO2, CN, etc.); R1 = absent, YRV (Y = a bond, alkylidene wherein up to two methylene units of Y are optionally replaced by CO, O, S, etc.; RV = halo, NO2, CN, etc.); R2, R3 = TR2, or R2 and R3, taken together, form (un)substituted 5-6 membered monocyclic aryl having 0-5 heteroatoms selected from N, O, or S, 5-6

L4 ANSWER 2 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 membered (un)satd. monocyclic ring having 0-3 heteroatoms selected from N, O, or S (T = a bond, alkylidene wherein up to two methylene units of T are optionally replaced by CO, CS, COCO, etc.; R2 = halo, NO2, CN, etc.); L = C2B63a1-61 (G2, G3 = absent, alkylidene wherein up to two methylene units are optionally replaced by CO, CS, COCO, etc.; B = absent, (un)substituted aryl, heteroaryl, cycloalkyl, etc., Ar1 = absent, (un)substituted 3-8 membered (un)satd. monocyclic ring having 0-3 heteroatoms, 8-12 membered (un)satd. bicyclic ring having 0-5 heteroatoms) as modulators of ATP-Binding Cassette ("ABC") transporters or fragments thereof, including Cystic Fibrosis Transmembrane Regulator ("CFTR"), compns. thereof, and methods therewith. E.g., a multi-step synthesis of the quinazoline II, is described. The compd. I are useful as modulators of ATP binding cassette transporters (the EC50 and relative efficacy for 405 compds. I were given). The present invention also relates to methods of treating ABC transporter mediated diseases such as cystic fibrosis using the modulators I.

IT 815589-62-9P  
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of quinazolines as modulators of ATP-binding cassette transporters)

RN 815589-62-9 CAPLUS  
 CN Piperazine, 1-[(4-bromophenyl)sulfonyl]-4-[(1-(3,4-dihydro-4-oxo-3-propyl-2-quinazolinyl)ethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2004:1060670 CAPLUS  
DOCUMENT NUMBER: 142:16799

TITLE: Engineered human tumorigenic cell-based identification of genotype-selective antitumor agents  
INVENTOR(S): Stockwell, Brent R.  
PATENT ASSIGNEE(S): Whitehead Institute for Biomedical Research, USA  
SOURCE: U.S. Pat. Appl. Publ., 38 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

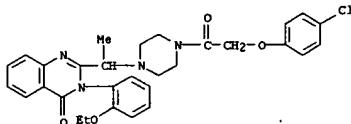
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004248221	A1	20041209	US 2004-767018	20040129
			US 2003-443728P	P 20030129
			US 2003-457401P	P 20030325
			US 2003-467290P	P 20030502
			US 2003-482689P	P 20030625
			US 2003-496209P	P 20030819

AB The invention discloses methods for identifying a genotype-selective agent. In certain embodiments, the invention relates to agents that are selectively toxic to engineered human tumorigenic cells.

IT 571203-78-6, Eristatin  
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (engineered human tumorigenic cell-based identification of genotype-selective antitumor agents)

RN 571203-78-6 CAPLUS

CN Piperazine, 1-[4-(4-chlorophenoxy)acetyl]-4-(1-[3-(2-ethoxyphenyl)-3,4-dihydro-4-oxo-2-quinazolinyl]ethyl)- (9CI) (CA INDEX NAME)



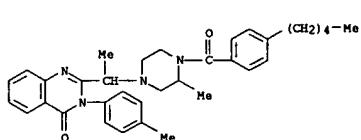
L4 ANSWER 4 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
PhMe/Me2CHOH/H2O to give 15% 2,4'-difluoro-N-(5-methylthiazol-2-yl)-1,1'-biphenyl-4-sulfonamide. In a screen for inhibition of *Candida albicans* logarithmic phase growth, title compds. showed IC50's of as low as 0.0005 µM.

IT 334800-96-3  
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of (iso)thiazole benzenesulfonamides and other heterocycles)

as inhibitors of fungal invasion

RN 334800-96-3 CAPLUS

CN Piperazine, 4-[1-[3,4-dihydro-3-(4-methylphenyl)-4-oxo-2-quinazolinyl]ethyl]-2-methyl-1-(4-pentylbenzoyl)- (9CI) (CA INDEX NAME)



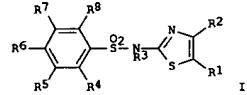
L4 ANSWER 4 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2004:902341 CAPLUS  
DOCUMENT NUMBER: 141:379919

TITLE: Preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of fungal invasion  
INVENTOR(S): Talley, John Jeffrey; Fretzen, Angelika; Zimmerman, Craig; Barden, Timothy; Yang, Jing Jing; Martinez, Eduardo; Milne, G. Todd; Etchell, A. Cordero; Christine, M. Piercer; Houman, Fariba; Busby, Robert; Summers, Eric F.; Antonelli, Stephen; Lee, Peter; Farwell, Michael; Mayorga, Maria O'Leary; Jessica Microbia, Inc., USA  
SOURCE: PCT Int. Appl., 179 pp.  
PATENT ASSIGNEE(S): CODEN: PIXX02

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004092123	A2	20041028	WO 2004-US11187	20040412
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TW, BW, GR, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CN, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.:	US 2003-461727P	P 20030410
	US 2003-469286P	P 20030509
	US 2003-485678P	P 20030709

OTHER SOURCE(S): MARPAT 141:379919  
GI



AB Title compds. e.g. [I; R1 = (substituted) alkyl, alkenyl; R2 = H, halo; R3 = H, CHO, Ac, (substituted) alkyl; R4 = H, halo, (substituted) alkyl, cycloalkyl, alkenyl, alkynyl, alkylamino, Ph, heterocaryl] were prepared. Thus, 4-bromo-2-fluoro-N-(5-methylthiazol-2-yl)benzenesulfonamide, 4-fluorobenzeneboronic acid, Pd(PPh3)4, and K2CO3 were stirred in

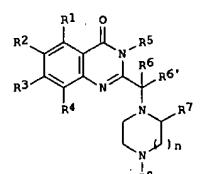
L4 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:203551 CAPLUS

DOCUMENT NUMBER: 140:253579  
TITLE: Preparation of 2-(piperazin-1-ylmethyl)-3H-quinazolin-4-one derivatives as inhibitors of mitotic kinesin KSP  
INVENTOR(S): Bergnes, Gustave  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 24 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

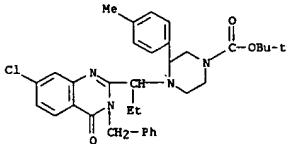
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004048853	A1	20040311	US 2003-644244	20030820
WO 200418058	A2	20040304	WO 2003-US26093	20030820
WO 200418058	A3	20040701		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TW, BW, GR, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CN, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2002-404864P  
OTHER SOURCE(S): MARPAT 140:253579  
GI



AB The title compds. (I; R1, R2, R3, R4 = H, HO, each (un)substituted alkyl or alkenyl, halogen or cyano; R5 = H, each (un)substituted alkyl, aryl, aralkyl, or aralkyl; R6, R 6' = H, each (un)substituted alkyl, aryl, aralkyl, heteroaryl or heteroaralkyl, or R6 and R6' taken together form a 3- to 7-membered nonarom. carbocyclic or heterocyclic ring; R7 = each (un)substituted alkyl, aryl, or aralkyl; R8 = H, each (un)substituted alkyl, aryl, or aralkyl; n = 1, 2), or pharmaceutically acceptable salts or solvates thereof. These compds. are useful for treating cellular proliferative diseases and disorders such as cancer, hyperplasia, restenosis, cardiac hypertrophy, an immune disorder or inflammation, by

L4 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
modulating the activity of KSP.  
IT 669695-61-0P, 4-[1-(3-Benzyl-7-chloro-4-oxo-3,4-dihydroquinazolin-2-yl)propyl]-3-(p-tolyl)piperazine-1-carboxylic acid tert-butyl ester  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(Intermediate; preparation of piperazinylmethyl-3H-quinazolinone derivs.  
as inhibitors of mitotic kinesin KSP for treating cellular proliferative diseases and disorders)  
RN 669695-61-8 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[1-[7-chloro-3,4-dihydro-4-oxo-3-(phenylmethyl)-2-quinazolinyl]propyl]-3-(4-methylphenyl)-, 1,1-dimethyl ethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
ACCESSION NUMBER: 2003:951025 CAPLUS  
DOCUMENT NUMBER: 140:16739  
TITLE: Preparation of (guanidino)quinazolinones as MC4-R agonists for treatment of obesity and type II diabetes  
INVENTOR(S): Boyce, Rustum S.; Aurecocochea, Natalia; Chu, Daniel; Smith, Aaron  
PATENT ASSIGNEE(S): Chiron Corporation, USA  
SOURCE: PCT Int. Appl., 170 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003099818	A1	20031204	WO 2003-US16442	20030523
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NL, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TH, TN, TR, TT, TZ, TZ, T2, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			US 2004019049	2003-444495
RW: GH, GM, KS, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BE, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TZ, UG, UZ, VC, VN, YU, ZA, ZM, ZW			PRIORITY APPLN. INFO.: US 2002-382762P	US 2002-382762P P 20020523
US 2004019049	A1	20040129	US 2003-441019P	US 2003-441019P P 20030117
OTHER SOURCE(S): MARPAT 140:16739			GI	

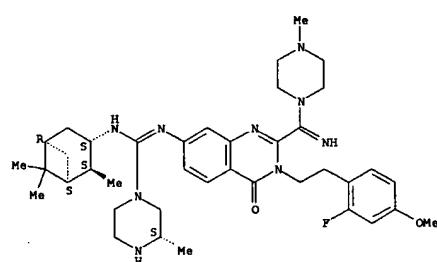
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title low mol. weight, guanidine-containing mol. I, II, and III [wherein  
21- CR4, N; Z2 = CR5, N; Z3 = CR6, N; R1 = (un)substituted (hetero)aryalkyl, (hetero)acyl, heterocyclyl, cycloalkyl(alkyl), heterocycloalkyl(alkyl), alkenyl, alkynyl, alkyl; R2 = H or (un)substituted (cyclo)alkyl, alkenyl, alkynyl, heteroacyl, heterocyclyl, (hetero)aryalkyl, cycloalkylalkyl, alkyloxy, (di)alkylamino, (hetero)aryloxy, heterocyclyl, (hetero)cycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkyl; R3 = independently H, halo, OH, NH2, CN, NO2, or (un)substituted alkoxy, (cyclo)alkyl, alkenyl, alkynyl, (di)alkylamino, heterocyclylaminocarbonyl, (cyclo)alkylaminocarbonyl, W = (un)substituted guanidino, and products, pharmaceutically acceptable salts, stereoisomers, tautomers, hydrates, hydrides, or solvates thereof] were prepared as melanocortin-4 receptor (MC4-R) agonists. For example, amidation of 4,5-difluorothranthranilic acid with 4-fluorophenylethylamine in the presence of HOBt and diisopropylethylamine in THF provided the benzamide (90%). The 2-aminobenzamide was cyclized with tri-Me

L4 ANSWER 6 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
orthoformate by heating to 120° for 3 h affording 6,7-difluoro-3-[2-(4-fluorophenyl)ethyl]-3-hydroquinazolin-4-one (75%), which was converted to the azide (95%) by reaction with NaN3 in DMSO. The azide was coupled with (15,25,35,5R)-2,6,6-trimethylbicyclo[3.1.1]hept-3-ylisocyanate in the presence of PPh3 in THF, and the product was reacted with (6S,2R)-2,6-dimethylpiperazine to give the guanidine deriv. IV. EC50 values of one hundred five test compds. were detd. by treating cells expressing MC4-R with test compds., lysing the cells, and measuring intercellular cAMP concns. Compds. listed displayed -log EC50 values above about 3. Thus, I, II, III, and their pharmaceutical compns. are useful for the treatment of MC4-R-mediated diseases, such as obesity or type II diabetes (no data).  
IT 628326-00-18  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOI (Biological study); PREP (Preparation); USES (Uses)  
MC4-R agonist; preparation of (guanidino)quinazolinones as MC4-R agonists for treatment of obesity and type II diabetes)

RN 628326-00-1 CAPLUS  
CN 1-Piperazinocarbonimidamide, N-[3-(2-(2-fluoro-4-methoxyphenyl)ethyl)-3,4-dihydro-2-[imino(4-methyl-1-piperazinyl)methyl]-4-oxo-7-quinazolinyl]-3-methyl-N'-(15,25,35,5R)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

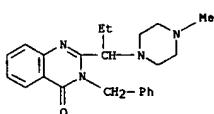
L4 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
ACCESSION NUMBER: 2003:376563 CAPLUS  
DOCUMENT NUMBER: 138:385439  
TITLE: Preparation of quinazolinone mitotic kinesin inhibitors for treating cancer  
INVENTOR(S): Foley, Mark E.; Hoffman, William F.; Merck & Co., Inc., USA  
PATENT ASSIGNEE(S): PCT Int. Appl., 101 pp.  
SOURCE: CODEN: PIXKD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003039460	A2	20030515	WO 2002-US35111	20021101
WO 2003039460	A3	20030731		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NL, NO, NZ, OM, PH, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TH, TN, TR, TT, TZ, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	EP 1444209 A2 20040811 EP 2002-799174 20021101
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			PRIORITY APPLN. INFO.: A1 20041223 US 2004-494899 20040507	US 2001-344453P P 20011107
EP 1444209 A2 20040811 EP 2002-799174			WO 2002-US35111 W 20021101	
OTHER SOURCE(S): MARPAT 138:385439			GI	

L4 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
AB The present invention relates to quinazolinones (shown as I; variables defined below; e.g. 3-benzyl-2-[1-(4-methylpiperazin-1-yl)propyl]quinazolin-4(3H)-one) that are useful for treating cellular proliferative diseases, for treating disorders associated with KSP kinesin activity, and for inhibiting KSP kinesin. The invention also relates to compns. which comprise these compds., and methods of using them to treat cancer in mammals. Twelve examples of I were found in a kinesin ATPase in vitro assay to have IC50 < 500 μM. Although the methods of preparation are not claimed, 1 example preparation of I and characterization data for another 10 examples of I are included. For I: NR = 5-12 membered N-containing heterocycle, which is optionally substituted with 1-6 R5 groups and which optionally incorporates 1-2 addnl. heteroatoms = N, O and S in the heterocycle; a = 0, 1; b = 0, 1; m = 0-2; n = 0-4; R1 = H, C1-C10 alkyl,

IT 522638-59-1P, 3-Benzyl-2-[1-(4-methylpiperazin-1-yl)propyl]quinazolin-4(3H)-one  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of quinazolinone mitotic kinesin inhibitors for treating cancer)

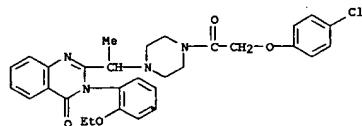


14 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003;275877 CAPLUS  
DOCUMENT NUMBER: 139:143514  
TITLE: Identification of genotype-selective antitumor agents  
using synthetic lethal chemical screening in  
engineered human tumor cells  
AUTHOR(S): Dolma, Sonami; Lessnick, Stephen L.; Hahn, William C.;  
Stockwell, Brent R.  
CORPORATE SOURCE: 9 Cambridge Center, Whitehead Institute for Biomedical  
Research, Cambridge, MA, 02142, USA  
SOURCE: Cancer Cell (2003), 3(3), 285-296  
CODEN: CCAECI; ISSN: 1535-6108  
PUBLISHER: Cell Press

DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB We used synthetic lethal high-throughput screening to interrogate 23,550 compds. for their ability to kill engineered tumorigenic cells but not their isogenic normal cell counterparts. We identified known and novel compds. with genotype-selective activity, including doxorubicin, daunorubicin, mitoxantrone, camptothecin, sangivamycin, echinomycin, bouvardin, NSC146109, and a novel compound that we named erastin. These compds. have increased activity in the presence of hTERT, the SV40 large and small T oncoproteins, the human papillomavirus type 16 (HPV) E6 and E7 oncoproteins, and oncogenic HRAS. We found that overexpressing hTERT and either E7 or LT increased expression of topoisomerase 2 $\alpha$  and that overexpressing RASV12 and ST both increased expression of topoisomerase 1 and sensitized cells to a nonapoptotic cell death process initiated by erastin.

IT 571203-78-6, Erastin  
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(identification of genotype-selective antitumor agents using synthetic lethal chemical screening in engineered human tumor cells)

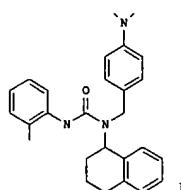
RN 571203-78-6 CAPLUS  
CN Piperazine, 1-[4-chlorophenoxy)acetyl]-4-[1-[3-(2-ethoxyphenyl)-3,4-dihydro-4-oxo-2-quinazolinyl]ethyl] - (9CI) (CA INDEX NAME)



REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

14 ANSWER 9 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:76556 CAPLUS  
DOCUMENT NUMBER: 138131125  
TITLE: Fat accumulation-modulating compounds  
INVENTOR(S): Stevenson, Michael John; Leighton, Harry Jefferson  
PATENT ASSIGNEE(S): Amgenix, Inc. USA  
SOURCE: PCT Int. Appl., 96 pp.  
CODEN: PIXAD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

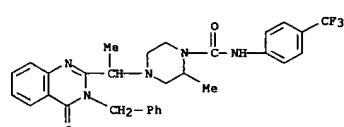
PATENT INFORMATION:		KIND	DATE	APPLICATION NO.	DATE
WO 2003007888		A2	20030130	WO 2002-US23295	20020722
WO 2003007888		A3	20031127		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, OM, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW					
RW: GH, GR, KE, LS, MW, MD, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, FI, FR, GB, GR, IE, LT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GM, ML, MR, NE, SN, TD, TG					
US 2003144350		A1	20030731	US 2002-201588	20020722
PRIORITY APPLN. INFO.:				US 2001-306837P	P 20010720
OTHER SOURCE(S):		MARPAT	138:131125		
GL					



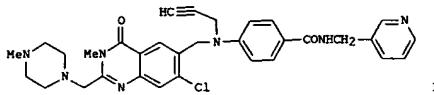
AB The present invention pertains to compds. effective at modulating fatty acid or triglyceride ("fat") accumulation by cells, such compds. having therapeutic potential as regulators of body mass and for the treatment of overweight individuals, obesity, and metabolic disorders. An example compound is I and protocol for high-throughput screening of compound efficacy on human preadipocytes is given. Therapeutic methods and pharmaceutical

IT compns. fea  
334481-37-5

L4 ANSWER 9 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (fat accumulation-modulating compds.)  
 RN 33481-5 CAPLUS  
 CN 1-Piperazinecarboxamide, 4-[1-[3,4-dihydro-4-oxo-3-(phenylmethyl)-2-quinazolinyl]ethyl]-2-methyl-N-[4-(trifluoromethyl)phenyl]- (9CI) (CN  
 INDEX NAME)



L4 ANSWER 10 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2002:524028 CAPLUS  
 DOCUMENT NUMBER: 137:232613  
 TITLE: The Design and Synthesis of Water-Soluble Analogues of CB30865, a Quinazolin-4-one-Based Antitumor Agent  
 AUTHOR(S): Bavetsias, V.; Skelton, L. A.; Yafai, F.; Mitchell, F.; Wilson, S. C.; Allan, B.; Jackman, A. L.  
 CORPORATE SOURCE: Centre for Cancer Therapeutics at The Institute of Cancer Research, Chemistry Department, Cancer Research U.K. Laboratory, Cancer Research U.K., Surrey, SM2 5NG, UK  
 SOURCE: Journal of Medicinal Chemistry (2002), 45(17), 3692-3702  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 137:232613  
 GI



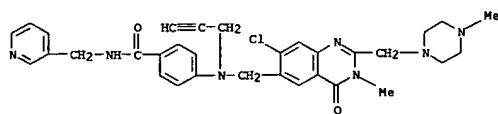
I

AB 4-[N-[7-Bromo-2-methyl-4-oxo-3,4-dihydroquinazolin-6-ylmethyl]-N-(prop-2-ynyl)amino]-N-(3-pyridylmethyl)benzamide (CB30865) is a quinazolin-4-one antitumor agent whose high growth-inhibitory activity (W1L2 IC<sub>50</sub> = 2.8 ± 0.50 nM) is believed to have a folate-independent locus of action. In addition, CB30865 represents a class of compds. with unique biochemical characteristics such as a delayed, non-phase specific, cell-cycle arrest. The low aqueous solubility of CB30865 prompted a search for more water-soluble analogs. For in vivo evaluation of this class of compds. It was thought that aqueous solubility could be increased by the introduction of amino functionalities at the 2-position of the quinazolin-4-one ring. A variety of compds. were synthesized in a linear fashion starting from 3-chloro-4-methylaniline. Most of these compds. Were significantly more water-soluble than CB30865 (636)  $\mu$ M for I at pH 6. In addition, some of them were up to 6-fold more cytotoxic than CB30865 (e.g., for I, W1L2 IC<sub>50</sub> = 0.49 ± 0.24 nM) and retained its novel biochemical characteristics.

IT 209715-28-2  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); preparation of pyridinylmethylicarbamoylanilinoethylquinazolinones as water-soluble analogs of CB30865

RN 209715-28-2 CAPLUS  
 CN Benzamide, 4-[[[7-chloro-3,4-dihydro-3-methyl-2-[(4-methyl-1-piperazinyl)methyl]-4-oxo-6-quinazolinyl]methyl]-2-propynylamino]-N-(3-

L4 ANSWER 10 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 pyridinylmethyl)- (9CI) (CA INDEX NAME)

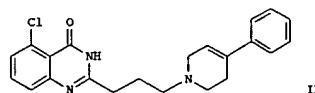
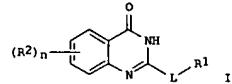


REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2002:465993 CAPLUS  
 DOCUMENT NUMBER: 137:47214  
 TITLE: Preparation of 2-substituted-4(3H)-quinazolinone derivatives as PARP inhibitors  
 INVENTOR(S): Matsukura, Nobuyuki; Iwashita, Akinori; Yamazaki, Shunji; Miyoshi, Hiroshi; Ohkubo, Mitsuhiro; Kamijo, Kazunori; Nishimura, Isao; Hattori, Kouji; Kido, Yoshiyuki; Ishida, Junya; Yamamoto, Hirofumi  
 PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 91 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002045117	A1	20020620	WO 2001-JP10601	20011205
W, AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SK, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MV, MZ, SD, SL, SZ, TZ, UG, ZN, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IS, IT, LU, MC, NL, PT, SE, TR, BE, BJ, CY, CG, CI, CM, GA, GR, GO, GW, HL, MB, NE, SW, TD, TG, CA 2431406	AA	20020620	CA 2001-2431406	20011205
AU 2002021047	A5	20020624	AU 2002-21047	20011205
EP 1355888	A1	20031029	EP 2001-270531	20011205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, TR, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004515544	T2	20040527	JP 2002-549648	20011205
US 2004077667	A1	20040422	US 2003-433947	20030609
PRIORITY APPLN. INFO.:			AU 2000-2016	A 20001211
OTHER SOURCE(S):	MARPAT 137:47214		WO 2001-JP10601	W 20011205
GI				

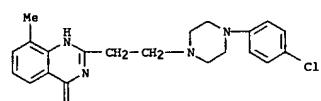
L4 ANSWER 11 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB Title compds. I [ R1 = (un)substituted cyclic amino group(s); R2 = substituent; n = 0-4; L = alkylene, alkenylene] were prepared. For instance, 2-amino-6-chlorobenzamide was coupled to 4-pentenyl chloride (THF, i-PrNET<sub>2</sub>, 5°C, 30 min) and the product treated with 1N NaOH to afford 2-(3-butienyl)-5-chloro-4(3H)-quinazolinone. This intermediate was oxidatively cleaved (dioxane, O<sub>2</sub>O<sub>4</sub>, t-BuOH, NaIO<sub>4</sub>) effecting cyclization to 8-chloro-1-hydroxy-2,3-dihydropyrrolo[2,1-b]quinazoline-9(1H)-one isolated as a colorless powder. This was used to alkylate 1,2,3,6-tetrahydro-4-phenylpyridine (CH<sub>3</sub>CNaq, HOAc, NaCNBH<sub>3</sub>) to afford II. Selected compds. of the invention had IC<sub>50</sub> < 0.5  $\mu$ M for poly(ADP-ribose)polymerase (PARP). I are useful for the treatment of NMDA- and NO-induced toxicity, tissue damage resulting from apoptosis, etc.

IT 437997-05-28  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); preparation of 2-(*n*-substituted(hetero)aryl-alkyl)substituted 4(3H)-quinazolinone derivs.)

RN 437997-05-2 CAPLUS  
 CN 4(1H)-Quinazolinone, 2-[2-[4-(4-chlorophenyl)-1-piperazinyl]ethyl]-8-methyl- (9CI) (CA INDEX NAME)



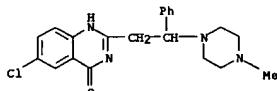
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2001:438306 CAPLUS  
 DOCUMENT NUMBER: 136:210029  
 TITLE: Evaluation of quinolone derivatives for antitrypanosomal activity  
 AUTHOR(S): Keiser, J.; Burri, C.  
 CORPORATE SOURCE: Department of Medical Parasitology and Infection Biology, Swiss Tropical Institute, Basel, 4002, Switz.  
 SOURCE: Tropical Medicine & International Health (2001), 6(5), 369-389  
 CODEN: TMHFL; ISSN: 1360-2276  
 PUBLISHER: Blackwell Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB About 160 fluoroquinolones and derivs. were tested for antitrypanosomal activity in a drug sensitivity assay followed by fluorometric evaluation. The most active quinolone compds. had IC<sub>50</sub> values in the range from 100 to 900 ng/mL, while several derivs. were not active at a concentration of 100 µg/mL. In a structure-activity relationship study, modification of the quinolones at position R1, R2, R3 and R8 did not influence trypanocidal activity. An exchange of the fluorine at position 6 may contribute to an increase in activity but does not entirely control it. Pyrrolidine substituents at position R7 generally were more active than other substituents at this position. Tetracyclic quinolone derivs. were amongst the most active compds. with IC<sub>50</sub> values in the range of 0.3-8.8 µg/mL. The in vitro cytotoxicity on HT-29 cells was determined for active compds.

with IC<sub>50</sub> values below 1 µg/mL. In addition, six drugs with an IC<sub>50</sub> below 1 µg/mL and a selectivity index of more than 10 were chosen for in vivo expts. Dose escalation expts. with a maximum dose of 100 mg/kg/bid were performed in a mouse model without central nervous system involvement. For unknown reasons the in vitro effect of the drugs could not be confirmed in vivo, but the class of compound remains of interest for their mode of action, the low toxicity, pharmacol. properties and the availability of a large number of synthesized compds.

IT 127033-50-5  
 RL: PAC (Pharmacological activity); PPR (Properties); BIOL (Biological study)  
 (antitrypanosomal activity of quinolone derivs. as function of their structure)  
 RN 127033-50-5 CAPLUS  
 CN 4(1H)-Quinazolinone, 6-chloro-2-[2-(4-methyl-1-piperazinyl)-2-phenylethyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2001:284756 CAPLUS  
 DOCUMENT NUMBER: 135:86537  
 TITLE: Design, synthesis and antihistaminic (H1) activity of some condensed 2-(substituted) arylaminoethyl-pyrimidin-4(3H)-ones  
 AUTHOR(S): Shishoo, Chamnani J.; Shirasath, Vikas S.; Rathod, Ishwarsinh S.; Patil, Milind J.; Bhargava, Samir S.  
 CORPORATE SOURCE: Department of Pharmaceutical Chemistry, L. M. College of Pharmacy, Ahmedabad, India  
 SOURCE: Arzneimittelforschung (2001), 51(3), 221-231  
 CODEN: ARZMAD; ISSN: 0004-4172  
 PUBLISHER: Editio Cantar Verlag  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 135:86537

AB The synthesis and potential H1 receptor antagonistic activity of two novel series of condensed 2-arylaminoethylpyrimidin-4(3H)-ones and 4-amino-2-aryl-aminoethyl pyrimidines have been reported. All the novel compds. were found to antagonize histamine in a competitive and reversible manner. When tested on guinea-pig ileum, compds. exhibited H1-antagonistic activity, (pA<sub>2</sub> values) in the range of 8.6 to 9.7. Some of the lead compds. were evaluated by an *in vivo* method and were found to protect the guinea pigs against the histamine induced asphyxial shock at the doses comparable to or lower than those of the standard drugs, cetirizine.

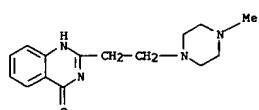
(CAS 93881-51-0) and terfenadine (CAS 50679-08-8). The pA<sub>2</sub> acetylcholine values of some of the lead compds. reflect about 1000-fold selectivity for histamine (H1) receptors. 4-Aminopyrimidines were found to be more selective than their 4-one analogs. In the radioligand binding study, one of the lead compds. was found to bind reversibly at the histamine H1 receptor with a K<sub>i</sub> value of 1.3 µmol/l and IC<sub>50</sub> of 3.8 µmol/l.

The lead compds. were found to have negligible sedative potential when tested *in vivo*. An indirect type of mol. modeling approach using temelastine (CAS 86101-42-2) as the standard ligand, indicates that the

potent H1-antagonistic activity of the compds. may be due to the increased spacer chain length between the pyrimidin nucleus and the sidechain aromatic ring.

IT 348628-52-48  
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PPR (Preparation); USES (Uses)  
 (design, synthesis and antihistaminic activity of arylaminoethyl-pyrimidinones)

RN 348628-52-4 CAPLUS  
 CN 4(1H)-Quinazolinone, 2-[2-(4-methyl-1-piperazinyl)ethyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 12 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

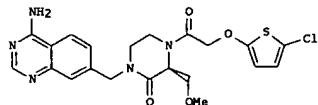
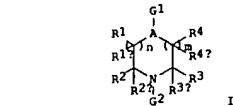
L4 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT.

L4 ANSWER 14 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2001:78383 CAPLUS  
 DOCUMENT NUMBER: 134:163059

TITLE: Substituted piperazinone derivatives and other oxazazeterocyclic compounds useful as factor Xa/IIa inhibitors  
 INVENTOR(S): Ewing, William R.; Becker, Michael R.; Choi-Sledeski, Yong Mi; Pauls, Heinz W.; He, Wei; Condon, Stephen M.; Davis, Roderick S.; Hanney, Barbara A.; Spada, Alfred P.; Burns, Christopher J.; Jiang, John Z.; Li, Aiwen; Myers, Michael R.; Lau, Wan F.; Poli, Gregory B.  
 PATENT ASSIGNEE(S): Aventis Pharmaceuticals Products Inc., USA  
 SOURCE: PCT Int. Appl., 460 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001007436	A2	20010201	WO 2000-1B1156	20000726
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2382755	AA	20010201	CA 2000-2382755	20000726
BR 2000013179	A	20020402	BR 2000-13179	20000726
EP 1208097	A2	20020529	EP 2000-951781	20000726
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 200200225	T2	20020621	TR 2002-200200225	20000726
JP 2003508353	T2	20030304	JP 2001-512520	20000726
EE 200200045	A	20030616	EE 2002-45	20000726
AU 773227	B2	20040520	AU 2000-64628	20000726
NO 2002000214	A	20020402	NO 2002-214	20020115
BG 106340	A	20021031	BG 2002-106340	20020122
ZA 2002000543	A	20030623	ZA 2002-543	20020122
PRIORITY APPLN. INFO.:			US 1999-363196	A 19990728
OTHER SOURCE(S):	MARPAT 134:163059		WO 2000-1B1156	W 20000726
GI				

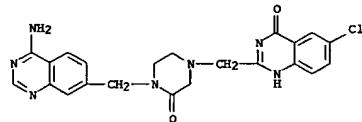
L4 ANSWER 14 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB: The invention is directed to piperazinones I and their pharmaceutically acceptable salts, prodrugs, N-oxides, hydrates, and solvates (wherein A = CH or N; G1 and G2 = LCy1 or LCy2; Cy1 and Cy2 = (un)substituted aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocyclic, etc.; L1 = null, O, S, SO, SO2, etc. or (un)substituted sulfamoyl, methylene, (alkyl)keto(alkyl), carbamoyl, etc.; L2 = null or linking group; R1, R1a, R2, R2a, R3, R3a, R4, R4a = independently H, carboxy, alkoxycarbonyl, alkyl, (hetero)aryl, aralkyl, heteroarylalkyl, etc.; m and n = independently 0-2). The compds. inhibit factor Xa (no data) and factor IIa, and thereby the production of thrombin, and are thus useful as anticoagulants in the treatment of a wide variety of conditions. The invention is also directed to pharmaceutical compns., synthetic intermediates, and a method of inhibiting factor Xa. Examples include the synthesis of approx. 1600 invention compds. and several hundred intermediates. For instance, condensation of 5-chloro-2-thienylacetic acid with the corresponding N-benzyloxycarbonyl-protected piperazinone derivative (prepn. given), using DIPFA and TBTU in DMF, gave II.

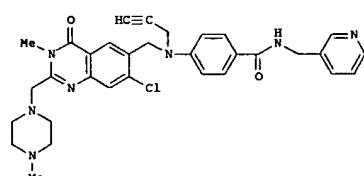
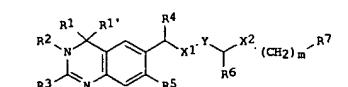
IT 234101-74-78  
 RL: BAA (biological activity or effector, except adverse); BSU (Biological study, unclassified); SPM (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (target compound) preparation of piperazinone derivs. and other substituted oxazazeterocyclic compds. as factor Xa/IIa inhibitors  
 RN 234101-74-7 CAPLUS  
 CN 4-(1H)-Quinazolinone, 2-[[4-[(4-amino-7-quinazolinyl)methyl]-3-oxo-1-piperazinyl]methyl]-6-chloro- (9CI) (CA INDEX NAME)

L4 ANSWER 14 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 15 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2000:608742 CAPLUS  
 DOCUMENT NUMBER: 133:207917  
 TITLE: Preparation of anticancer dihydroquinazoline derivatives with a non-folate dependent locus of activity  
 INVENTOR(S): Skelton, Lorraine; Bavetsias, Vassilis; Jackman, Ann  
 PATENT ASSIGNEE(S): Cancer Research Campaign Technology Ltd., UK  
 SOURCE: PCT Int. Appl., 91 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050417	A1	20000831	WO 2000-GB655	20000224
W: AU, CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2364708	AA	20000831	CA 2000-2364708	20000224
AU 200026838	A5	20000914	AU 2000-26838	20000224
AU 772670	B2	20040506		
EP 1155012	A1	20011121	EP 2000-905212	20000224
EP 1155012	B1	20040414		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002537391	T2	20021105	JP 2000-600998	20000224
AT 264322	E	20040415	AT 2000-905212	20000224
ES 2219308	T3	20041201	ES 2000-905212	20000224
US 6699861	B1	20040302	US 2001-914010	20011019
PRIORITY APPLN. INFO.:			GB 1999-4275	A 19990224
OTHER SOURCE(S):	MARPAT 133:207917		WO 2000-GB655	W 20000224
GI				



II

AB The title compds. (I) [wherein R1 and R1' together = :O and R2 = H, alkyl, alkyl-COO-B, alkyl-CO-alkyl-B, alkyl-CO2-alkyl-B, alkyl-CO2-alkenyl-B, or alkyl-C(=O)-alkyl-B; B = CO2H, OH, alkoxyl, NH2, (di)alkylamino, or 5- or 6-membered heterocyclic group; or R1' and R2 together = a bond and R1 is alkylthio, NHR', or NHCOR'; R' = aryl or alkyl; R3 = (CH2)pA; p = 1-4; A = 5- or 6-membered N-containing heterocyclic ring attached via the N or NA'A"; A' and A" = independently alkyl groups; R4 = H, :O, or alkyl and R5 = H, alkyl, or halo; or R4 and R5 together with the carbon atoms to which they are attached = 5- or 6-membered carbocyclic ring; X1 and X2 = independently O, S, or NR'; R" = H, alkyl, alkenyl, or alkynyl; Y = divalent (hetero)aryl; R6 = H, :O, or alkyl; m = 1-4; R7 = pyridyl, pyrimidyl, (alkyl)imidazolyl, or (alkyl)triazolyl], and pharmaceutically acceptable salts thereof, were prepared for the treatment or prevention of cancer. I have a different pattern of activity to known chemotherapeutic agents, which operate via inhibition of thymidylate synthase (TS), and are thought to act via a new, non-folate dependent locus like that of CB30865. For example, hydrolysis of the 4-(4-hydroquinazolin-6-ylmethyl)-N-(prop-2-ynyl)amino]benzoate tert-Bu ester (multi-step preparation given) with TFA in

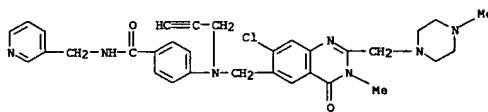
CH2Cl2, followed by amidation with 3-(aminomethyl)pyridine in DMF using PyBOP in the presence of diisopropylethylamine, gave II (70%). II inhibits TS poorly compared to the known anticancer agent CB3717 (IC50 II / IC50 CB3717 > 2500). However, II (CB30919) was active against the WIL2 and WIL2:Cl cell lines, including WIL2 cells incubated in the presence of folate metabolites, with IC50 values of 0.49 nM, 0.28 nM, and 0.32 nM, resp. In a test against WIL2:R865, a CB30865 resistant cell line, II showed decreased activity with an IC50 of 13,000 nM. In addition, II demonstrated antitumor activity against CHI ovarian and HT29 colon cancer cells in nude mice at doses that were tolerated.

IT 289715-28-29, CB 300919

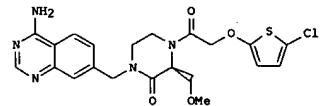
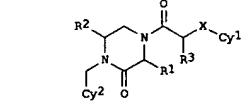
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PRP (Preparation); USES (Uses); (anticancer agent; preparation of anticancer 6-[(N-(4-carbamoylphenyl)-N-(prop-2-ynyl)amino)methyl]-3,4-dihydroquinazolin-4-ones by hydrolysis and amidation of 4-(N-(dihydroquinazolin-6-ylmethyl)-N-(prop-2-ynyl)amino)benzoate tert-Bu esters)

RN 289715-28-29 CAPLUS

CN Benzamide, 4-[[[7-chloro-3,4-dihydro-3-methyl-2-[(4-methyl-1-piperazinyl)methyl]-4-oxo-6-quinazolinyl]methyl]-2-propynylamino]-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000032590	A1	20000608	WO 1999-US28074	19991124
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZW		W: AM, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SI, TD, TG	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZW	19990127
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SI, TD, TG	A1	19990729	WO 1999-US1692	19990127
JP 2003529531	T2	20031007	JP 2000-585232	19991124
PRIORITY APPLN. INFO.:			US 1998-110012P	A2 19981125
OTHER SOURCE(S):	MARPAT	133:30741	WO 1999-US1682	A2 19990127
GI			US 1999-313611	A2 19990518
			US 1999-363196	A2 19990728
			US 1998-72707P	A2 19980127
			WO 1999-US28074	W 19991124



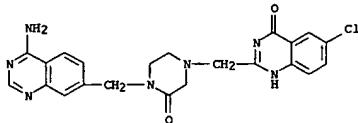
AB The invention is directed to piperazinones I and their pharmaceutically acceptable salts, prodrugs, N-oxides, hydrates, and solvates [wherein R1 = H, alkyl, aryl, aralkyl, heteroaryl, heteroarylalkyl, alkoxyl, aminoalkyl, CH2Oz, CH(CH3)Oz; R2 = H, (un)substituted alkyl, aryl, aralkyl, heteroaryl, or heteroarylalkyl; R3 = H or Me; X = N or O; Z = lower alkyl or alkoxazaheterocyclicalkyl; Cy1 = (un)substituted aryl, (un)substituted heteroaryl; Cy2 = (un)substituted aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocyclic, etc.]. The compds. inhibit factor Xa (no data), and thereby the production of thrombin, and are thus useful as anticoagulants in the treatment of a wide variety of conditions. The invention is also directed to pharmaceutical compns., synthetic intermediates, and a method of inhibiting factor Xa. Examples include the synthesis of approx. 780 invention compds., approx. 50 of which are also claimed, and several hundred intermediates. For instance, condensation of 5-chloro-2-thienylacrylic acid with the corresponding N-benzyloxycarbonyl-protected piperazinone derivative (preps. given), using DIPEA and TBTU in DMF, gave the preferred title compound II.

IT 234101-74-79

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PRP (Preparation); USES (Uses); (target compound; preparation of piperazinone derivs. and other substituted oxazaheterocyclic compds. as factor Xa inhibitors)

RN 234101-74-7 CAPLUS

CN 4(1H)-Quinazolinone, 2-[(4-((4-amino-7-quinazolinyl)methyl)-3-oxo-1-piperazinyl)methyl]-6-chloro- (9CI) (CA INDEX NAME)

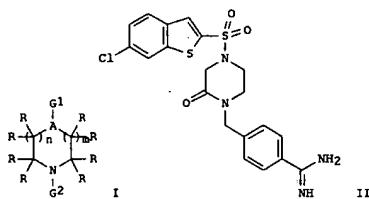


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1999487215 CAPLUS  
 DOCUMENT NUMBER: 131:130007  
 TITLE: Substituted piperazinone derivatives and other oxazaheterocyclic compounds useful as factor Xa inhibitors  
 INVENTOR(S): Ewing, William R.; Becker, Michael R.; Choi-Sledeski, Yong Mi; Pauls, Hainz W.; He, Weiz; Condon, Stephen M.; Davis, Roderick S.; Hanney, Barbara A.; Spada, Alfred P.; Burns, Christopher J.; Jiang, John Z.; Li, Aiwen; Myers, Michael R.; Lau, Wan F.; Poll, Gregory B.  
 PATENT ASSIGNEE(S): Rhone-Poulenc Rorer Pharmaceuticals Inc., USA  
 SOURCE: PCT Int. Appl., 300 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9937304	A1	19990729	WO 1999-US1682	19990127
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UG, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, GA, GN, GW, ML, MR, NZ, TD, TG				
ZA 9900607	A	19990727	ZA 1999-607	19990127
CA 2319198	AA	19990729	CA 1999-2319198	19990127
AU 9926533	A1	19990809	AU 1999-26533	19990127
AU 745425	B2	20020321		
BR 9907300	A	20001024	BR 1999-7300	19990127
EP 1051176	A1	20001115	EP 1999-906684	19990127
R: AI, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, RO, SI, LT, LV, FI, RO				
TR 200002182	T2	20001221	TR 2000-200002182	19990127
JP 2002501024	T2	20020115	JP 2000-528286	19990127
EE 20000435	A	20020215	EE 2000-435	19990127
WO 2000032590	A1	20000608	WO 1999-US28074	19991127
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, CY, KZ, MD, RU, TJ, TM, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, GA, GN, GW, ML, MR, NZ, TD, TG				
JP 200329531	T2	20031007	JP 2000-585232	19991124
NO 2000003808	A	20000926	NO 2000-3808	20000725
BG 104633	A	20010330	BG 2000-104633	20000725
US 2004102450	A1	20040527	US 2003-628093	20030725
PRIORITY APPLN. INFO.:				
			US 1998-72707P	AZ 19980127
			US 1998-110012P	AZ 19981125
			WO 1999-US1682	W 19990127

OTHER SOURCE(S): MARPAT 131:130007  
 G1



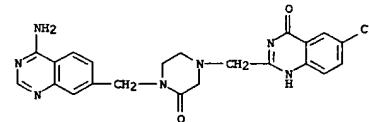
AB The invention is directed to oxazaheterocyclic compds. I and their pharmaceutically acceptable salts, prodrugs, N-oxides, hydrates, and solvates [wherein A = CH, N; G1, G2 = (independently) -l-Cy; L = various atomic and mol. linkers, including O, (un)substituted NH or S, alk(en)yl, etc., or their combinations; Cy = (un)substituted (hetero)aryl, cycloalk(en)yl, heterocyclyl, etc.; R = (independently) H, CO2R, alkoxycarbonyl, (un)substituted carbamoyl, alkyl, (hetero)aryl, (hetero)aralkyl or two geminal R groups = O or S; m, n = 0-2; with provisos]. The compds. inhibit factor Xa (no data), and thereby the production of thrombin, and are thus useful as anticoagulants in the treatment of a wide variety of conditions. The invention is also directed to pharmaceutical compds., synthetic intermediates, and a method of inhibiting factor Xa. Examples include the synthesis of approx. 780 compds. I, which are also claimed, and several hundred intermediates. For instance, sulfonamidation of 6-chlorobenzo[b]thiophene-2-sulfonyl chloride with 4-(2-oxopiperazin-1-ylmethyl)benzamidine bistrifluoroacetate (preps. given) in CH2Cl2 in the presence of Et3N gave title compound II.

IT 234101-74-78

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (target compound); preparation of piperazinone derivs. and other substituted oxazaheterocyclic compds. as factor Xa inhibitors)

RN 234101-74-7 CAPLUS

CN 4(1H)-Quinazolinone, 2-[(4-[(4-amino-7-quinazolinyl)methyl]-3-oxo-1-piperazinyl)methyl]-6-chloro- (9CI) (CA INDEX NAME)



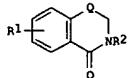
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 18 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1996:117830 CAPLUS  
 DOCUMENT NUMBER: 124:176144

TITLE: Preparation of bicyclic compds. as antirheumatics  
 INVENTOR(S): Kawagoe, Keiichi; Nakayama, Atsushi; Hasegawa, Masashi; Miwa, Tamotsu; Nakajima, Hiroto; Tsukada, Hisashi  
 PATENT ASSIGNEE(S): Daiichi Seiyaku Co, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07258224	A2	19951009	JP 1994-53359	19940324
PRIORITY APPLN. INFO.:			JP 1994-53359	19940324
OTHER SOURCE(S):	MARPAT	124:176144		
GI				



I

AB Bicyclic compds. I [R1 = H, amino, substituted amino, nitrogen-containing heterocycl, substituted nitrogen-containing heterocycl]; R2 = acyl, substituted acyl; Q = N:CR3, NHCR4R5, NHCO(CH2)n; R3 = H, alkyl, substituted alkyl; R4,R5 = H, alkyl; n = 1, 2] and their salts, useful as antirheumatics, immunosuppressants, allergy inhibitors, and for treatment for bone disease, were prepared. Thus, stirring

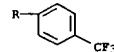
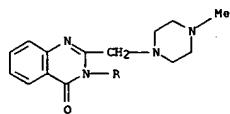
2-amino-N-(4-chlorophenyl)-3-[  
 (4-methylpiperazino)benzamide with tri-Et orthoformate and a catalytic amount of H2SO4 at 110° for 5 h gave 92% 3-(4-chlorophenyl)-8-(4-methylpiperazino)-3,4-dihydroquinazolin-4-one. 3-(4-Chlorophenyl)-2-methyl-3-(4-methylpiperazino)-3,4-dihydroquinazolin-4-one showed antiinflammatory activity in rats.

IT 173589-70-3  
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); Preparation of bicyclic compds. as antirheumatics)

RN 173589-70-3 CAPLUS

CN 4(OH)-Quinazolinone, 2-[(4-methyl-1-piperazinyl)methyl]-3-[  
 (trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 18 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 19 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1996:31844 CAPLUS  
 DOCUMENT NUMBER: 124:176006

TITLE: Quinazoline Antifolate Thymidylate Synthase Inhibitors: Lipophilic Analogs with Modification to the C2-Methyl Substituent  
 AUTHOR(S): Henneguin, Laurent F.; Boyle, F. Thomas; Wardleworth, J. Michael; Marsham, Peter R.; Kimbell, Rosemary; Jackman, Ann L.

CORPORATE SOURCE: Centre de recherches, Zenecca Pharma, Reims, 51064, Fr.  
 SOURCE: Journal of Medicinal Chemistry (1996), 39(3), 695-704  
 CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

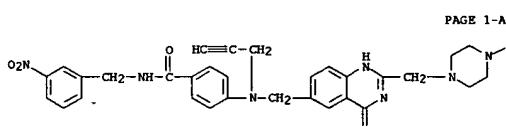
LANGUAGE: English

AB Modification of the potent thymidylate synthase (TS) inhibitor 1-[N-[4-[(3,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-N-propylamino]benzoyl]amino)methyl]-3-nitrobenzene (1) has led to the synthesis of quinazolinone antifolates bearing functionalized alkyl substituents at C2. A general synthetic route was developed which involved coupling the appropriate 1-[N-(4-(alkylamino)benzoyl)amino)methyl]-1-nitrobenzene-2-(acetoxymethyl)-3,4-dihydro-4-oxoquinazoline, Good TS (IC50 <1 μM) and growth inhibition (IC50 0.1-1 μM) were found with most of these new antifolates. TS inhibitors in this series do not apparently require the reduced folate carrier (RFC) for cell entry (they most likely penetrate the cell membrane by passive diffusion) and are not polyglutamated. N, O, S, Cl, and CN as well as large amino and mercapto substituents were tolerated by the enzyme. The simultaneous incorporation of 7-Me and 2'-F substituents gave a series of highly potent agents inhibiting cell growth at concns. <1 μM. The incorporation of suitable C2 substituents has overcome the decrease in aqueous solubility observed with lipophilic quinazoline antifolates.

IT 173952-11-9  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses); Preparation of quinazoline antifolate thymidylate synthase inhibitors)

RN 173952-11-9 CAPLUS  
 CN Benzamide, 4-[[[1,4-dihydro-2-[(4-methyl-1-piperazinyl)methyl]-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]-N-[(3-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 19 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



PAGE 1-A

PAGE 1-B

Me

L4 ANSWER 20 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1995:346608 CAPLUS

DOCUMENT NUMBER: 122:160664

TITLE: Quinazoline derivatives as neoplasm inhibitors  
INVENTOR(S): Barker, Andrew John; Boyle, Francis Thomas; Hennequin, Laurent Francois Andre  
PATENT ASSIGNEE(S): Zeneca Ltd., UK; British Technology Group Ltd.  
SOURCE: Brit. UK Pat. Appl., 71 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

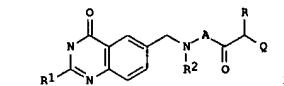
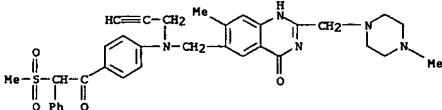
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2271111	A1	19940406	GB 1993-20077	19930929
ZA 9306768	A	19940330	ZA 1993-6768	19930914
WO 9407869	A1	19940414	WO 1993-GB2015	19930928
W: AU, BG, BR, CA, CZ, FI, HU, JP, KR, NO, NZ, PL, PT, RO, RU, SE, SK, US, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE AU 9348297	A1	19940426	AU 1993-48297	19930928
PRIORITY APPLN. INFO.:			GB 1992-20571	A 19920930
OTHER SOURCE(S):	MARPAT	122:160664	WO 1993-GB2015	W 19930928

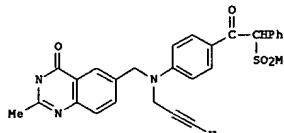
G1

L4 ANSWER 20 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

IT 161417-89-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(preparation of, as neoplasm inhibitor)  
RN 161417-89-6 CAPLUS  
CN 4(1H)-Quinazolinone, 7-methyl-2-[(4-methyl-1-piperazinyl)methyl]-6-[(4-[(methylsulfonyl)phenylacetyl]phenyl)-2-propynylamino)methyl]- (9CI) (CA INDEX NAME)

I

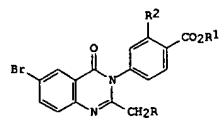


II

AB Quinazolines I (R1 = H, substituent; R2 = H, alkyl, etc.; A = phenylene, aromatic heterocyclyc ring; R = Ph, heteroaryl; Q = nitro, cyano, carbamoyl, etc.) were disclosed. Compds. I are useful as antitumor agents. A specifically claimed example compound is 4-[(2-methyl-4-oxo-3,4-dihydro-6-quinazolinyl)methyl](2-propenyl)amino)-a-

L4 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1994:323466 CAPLUS

DOCUMENT NUMBER: 120:323466

TITLE: Synthesis and biological activities of 6-bromo-3,3-disubstituted-4-(3H)-quinazolinones  
AUTHOR(S): Abdel-Aalim, Abdel-Aalim M.; El-Shorbagi, Abdel-Nasser A.; El-Shareef, Hosny A. H.; El-Gendy, Mahmoud A.; Amin, Monir A.CORPORATE SOURCE: Fac. Pharm., Assiut Univ., Cairo, Egypt  
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1994), 33B(3), 260-5DOCUMENT TYPE: CODEN: IJSCBDB; ISSN: 0376-4699  
LANGUAGE: Journal  
OTHER SOURCE(S): CASREACT 120:323466  
G1

I

AB The title compds., 6-bromo-2, 3-disubstituted-4(3H)-quinazolinones (I) have been synthesized for evaluation as potential sedative-hypnotic, anti-convulsant and anti-inflammatory agents. Compound I (R = PhCH2S, R1 = Et, R2 = H) has been synthesized by condensing 6-bromo-2-chloromethyl-3-(p-ethoxycarbonylphenyl)-4(3H)-quinazolinone with benzyl mercaptan in the presence of potassium carbonate. Compds. I (R = CH2SCH2CO2H, CH2SCH2CH2CO2H, CH2SC(Me)CO2H) (II) are obtained by the condensation of I (R = Cl) with the appropriate thioacid. Superior sedative-hypnotic and anti-convulsant effects are achieved by II (R1 = Me, Et; R2 = H) (III). On the other hand, II (R2 = OH) reveal better results as anti-inflammatory agents than that for III. Most of the tested compds. have been found to be, at least, two times as potent as aspirin in anti-inflammatory tests.

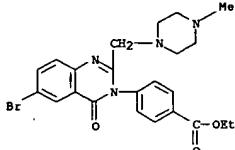
IT 155104-19-18

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

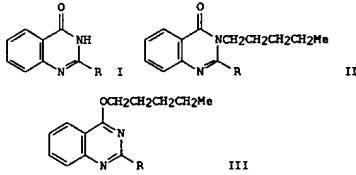
RN 155104-19-1 CAPLUS

CN Benzoic acid, 4-[6-bromo-2-[(4-methyl-1-piperazinyl)methyl]-4-oxo-3(4H)-quinazolinyl]-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 22 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1994:217509 CAPLUS  
 DOCUMENT NUMBER: 120:217509  
 TITLE: Effects of a 2-substituent on the ratio of N- and O-alkylation of 4(3H)-quinazolinones  
 AUTHOR(S): Hori, Manabu; Ohtaka, Hiroshi  
 CORPORATE SOURCE: New Drug Lab., Kanebo Ltd., Osaka, 534, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1993), 41(6), 1114-17  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



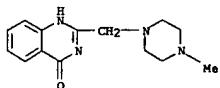
AB Alkylation of 4(3H)-quinazolinones [I; R = H, CHMe2, CMe3, CF3, (4-methylpiperazino)methyl, NMe2, O(CH2)4Me] with 1-iodopentane in the presence of sodium hydride gave a mixture of 3-pentyl-4(3H)-quinazolinones (II) and 4-pentyl oxyquinazolines (III). The ratio of O-alkyl/N-alkyl products varied according to the 2-substituents of the quinazoline ring. Multiple regression analyses revealed that the ratio was determined by a steric factor (width parameter of B) and an electronic factor (in terms of Hammett's  $\sigma$ ) of the 2-substituent. It was also the case in the reported alkylation of 4(3H)-quinazolinones with propargyl bromide.

IT 19062-52-3

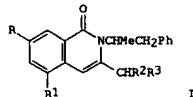
RLI (Reactant); RACT (Reactant or reagent)  
 (multiple regression anal. of substituent effect on ratio of N to O alkylation of)

RN 19062-52-3 CAPLUS

CN 4(1H)-Quinazolinone, 2-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 23 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1991:679945 CAPLUS  
 DOCUMENT NUMBER: 115:278945  
 TITLE: New quinazolone congeners  
 AUTHOR(S): Samanta, Suchma; Bhalla, M.; Verma, M.; Samanta, A. K.; Shanker, K.  
 CORPORATE SOURCE: Dep. Pharmacol. Ther., King George's Med. Coll., Lucknow, 226 003, India  
 SOURCE: Journal of the Indian Chemical Society (1991), 68(3), 142-3  
 CODEN: JICSAH; ISSN: 0019-4522  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI

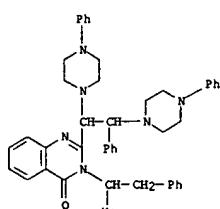


AB Quinazolinone derivs. I (R = R1 = H, Br, R2R3 = CHPh; R = Br, iodo, R1 = H, R2R3 = CHPh; R = R1 = H, Br, R2 = H, R3 = Br; R = Br, iodo, R1 = H, R2 = H, R3 = Br) were prepared by condensation of I (R2 = R3 = H) with PhCHO or bromination of I (R2 = R3 = H). These compds. were further brominated and aminated with arylamines.

IT 137610-44-78  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

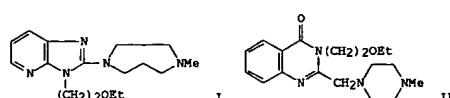
RN 137610-44-7 CAPLUS

CN 4(3H)-Quinazolinone, 3-(1-methyl-2-phenylethyl)-2-[2-phenyl-1,2-bis(4-phenyl-1-piperazinyl)ethyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 22 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L4 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1990:406267 CAPLUS  
 DOCUMENT NUMBER: 113:6267  
 TITLE: Bioisosteric transformation of H1-antihistaminic benzimidazole derivatives  
 AUTHOR(S): Iseura, Ryuichi; Hori, Manabu; Saito, Tadayuki; Ohtaka, Hiroshi  
 CORPORATE SOURCE: Pharm. Res. Cent., Kanebo Ltd., Osaka, 534, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1989), 37(10), 2723-6  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 113:6267  
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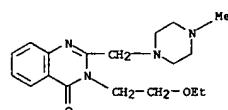
AB For obtaining new H1-antihistaminic agents, transformation of previously reported antihistaminic benzimidazoles were performed on the basis of the concept of bioisostericism. Among the compds. prepared, imidazo[4,5-b]pyridine I and -quinazolinone II exhibited significant H1-antihistaminic activity.

IT 127533-14-6P

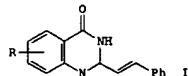
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and antihistaminic activity of)

RN 127533-14-6 CAPLUS

CN 4(3H)-Quinazolinone, 3-(2-ethoxyethyl)-2-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

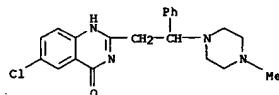


L4 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1990-235257 CAPLUS  
 DOCUMENT NUMBER: 112:235257  
 TITLE: Synthesis and biological evaluation of 2-styrylquinazolin-4(3H)-ones, a new class of antimitotic anticancer agents which inhibit tubulin polymerization  
 AUTHOR(S): Jiang, Jack B.; Hesson, D. P.; Dusak, B. A.; Dexter, D. L.; Kang, G. J.; Hamel, E.  
 CORPORATE SOURCE: E. I. DuPont de Nemours and Co., Wilmington, DE, 19880, USA  
 SOURCE: Journal of Medicinal Chemistry (1990), 33(6), 1721-8  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CODEN: JMCHAR; ISSN: 0022-2623  
 CASREACT 112:235257  
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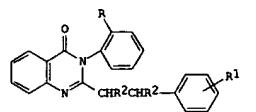


AB Title compds., e.g., I (R = 5-, 6-, 7-, 8-Cl, 6-Br, 6-F, 6-NH<sub>2</sub>, 6-OMe, 5-, 6-Me, 6-OH, 6-OEt) were prepared. Extensive structure-activity relationship studies suggest that the entire quinazolinone structure was required, but activity was further enhanced by halide or small hydrophobic substituents at position 6. These analogs did not substantially interfere with the binding of radiolabeled colchicine, vinblastine, or GTP to tubulin and weakly stimulated GTP hydrolysis uncoupled from polymerization. Several analogs have shown in vivo tumor growth inhibitory activity in the L1210 leukemia model, with the lead compound I (R = 6-OMe) exhibiting good antitumor activity against murine solid tumors as well as human tumor xenografts.

IT 127033-50-5  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPM (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and antitumor activity of)  
 RN 127033-50-5 CAPLUS  
 CN 4(1H)-Quinazolinone, 6-chloro-2-[2-(4-methyl-1-piperazinyl)-2-phenylethyl]- (9CI) (CA INDEX NAME)



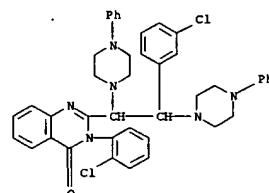
L4 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1985-45864 CAPLUS  
 DOCUMENT NUMBER: 102:45864  
 TITLE: Synthesis and antiinflammatory activity of 2-substituted-phenethyl-3-substituted-phenyl-4(3H)-quinazolinones  
 AUTHOR(S): Singh, Inder Pal; Saxena, A. K.; Sinha, J. N.; Bhargava, K. P.; Shanker, K.  
 CORPORATE SOURCE: Dep. Pharmacol. Ther., King George's Med. Coll., Lucknow, 226 003, India  
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1984), 23B(6), 592-4  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CODEN: IJSBDB; ISSN: 0376-4699  
 CASREACT 102:45864  
 GI



AB Quinazolinones I (R = Cl, Me; R1 = 2-OMe, 3-Cl, 2-OH; R2 = N-Phenylpiperazine, homopiperidino, 2-methylpiperidino, morpholino, 4-ClC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>CH<sub>2</sub>NH, N(CH<sub>2</sub>CH<sub>2</sub>OH)2, piperidino, N-(2-chlorophenyl)piperazine) have been prepared by the bromination of 2-styrylquinazolinones to yield  $\alpha$ , $\beta$ -dibromophenethylquinazolinones which undergo condensation with amines to give I. 2-( $\alpha$ -Bromo- $\alpha$ , $\beta$ -dimethoxyphenethyl)-3-( $\alpha$ -chlorophenyl)-4(3H)-quinazolinone has been obtained by the action of MeOH on the dibromo analog. All I show significant antiinflammatory activity. I (R = Cl, R1 = 3-Cl, R2 = N-phenylpiperazine) is the most potent.  
 IT 93415-26-0  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPM (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and antiinflammatory activity of)  
 RN 93415-26-0 CAPLUS  
 CN 4(3H)-Quinazolinone, 3-(2-chlorophenyl)-2-[2-(3-chlorophenyl)-1,2-bis(4-phenyl-1-piperazinyl)ethyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L4 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 27 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:34516 CAPLUS

DOCUMENT NUMBER: 100:34516

TITLE: New synthesis of 11-acyl-5,11-dihydro-6H-pyrido[2,3-b][1,4]benzodiazepin-6-ones and related studies

AUTHOR(S): Kocad, T.; Oklobdzija, M.; Comisso, G.; Decorte, E.; Feijlaga, T.; Moimas, F.; Angel, C.; Zonno, F.; Toso, R.; Sunjic, V.

CORPORATE SOURCE: Chem. Res. Co., San Giovanni, Italy

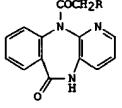
SOURCE: Journal of Heterocyclic Chemistry (1983), 20(5), 1339-49

DOCUMENT TYPE: COMEN: JHTCAD; ISSN: 0022-152X

LANGUAGE: English

OTHER SOURCE(S): CASREACT 100:34516

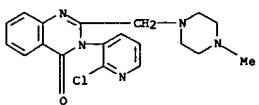
G1



AB 11-Acyl-5,11-dihydro-6H-pyrido[2,3-b][1,4]benzodiazepin-6-ones I (R = 4-methylpiperazine, imidazole, 2-methylimidazole) were prepared via N-*o*-chloroacetylation and aminolysis. Other attempts at cyclization to form I are also reported.

IT 66369-55-5 CAPLUS  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 66369-55-5 CAPLUS  
CN 4(3H)-Quinazolinone, 3-(2-chloro-3-pyridinyl)-2-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:72041 CAPLUS

DOCUMENT NUMBER: 98:72041

TITLE: Synthesis of 2-substituted quinazolines and quinazolones as potential anthelmintics

AUTHOR(S): Restogi, Rashmi; Sharma, Satyavan

CORPORATE SOURCE: Med. Chem. Div., Cent. Drug Res. Inst., Lucknow, 226 001, India

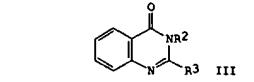
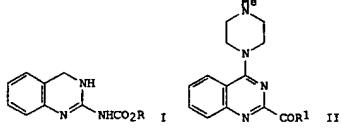
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1982), 21B(8), 744-6

DOCUMENT TYPE: CODEN: IJSCBDB; ISSN: 0376-4699

LANGUAGE: Journal

OTHER SOURCE(S): English

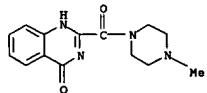
GI CASREACT 98:72041



AB Quinazolines I (R = Me, Et) and II (R1 = EtO, 4-methylpiperazine) and quinazolones III (R2 = H, Me; R3 = H, Me2CHCH2O2CO2C, 4-methylpiperazinocarbonyl) were prepared from 2-aminobenzylamine and 2-carboxyquinazolone. The compds. have been tested for their antihookworm activity against *Ancylostoma ceylanicum* in hamsters but none shows any significant activity.

IT 29113-35-7  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 29113-35-7 CAPLUS  
CN Piperazine, 1-[(1,4-dihydro-4-oxo-2-quinazolinyl)carbonyl]-4-methyl- (8CI, 9CI) (CA INDEX NAME)

L4 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 29 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:115510 CAPLUS

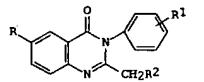
DOCUMENT NUMBER: 96:115510

TITLE: A new potent antiinflammatory quinazolone

AUTHOR(S): Verma, M.; Sinha, J. N.; Gujrati, V. R.; Bhatta, T. N.; Bhargava, K. P.; Shanker, K.

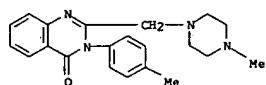
CORPORATE SOURCE: Dep. Pharmacol. Ther., King George's Med. Coll., Lucknow, 226003, India

SOURCE: Pharmacological Research Communications (1981), 13(10), 967-79

DOCUMENT TYPE: CODEN: PLRCAT; ISSN: 0031-6989  
LANGUAGE: Journal  
GI

AB Nineteen 3-aryl quinazolones I (R = H or I, R1 = H or Me, R2 = substituted piperazine or piperidine) were synthesized and screened against carrageenan induced edema in albro rats. Several compds. had potent antiinflammatory activity; 2-homopiperidinomethyl-3-(o-tolyl)-4-(3H)-6-iodoquinazolone [80930-91-2] was the most potent. This compound was evaluated further and compared with phenylbutazone for its relative antiinflammatory potency, ulcerogenic liability, and acute toxicity. It was almost equipotent to phenylbutazone with respect to antiinflammatory activity and had min. ulcerogenic liability and cardiovascular and central nervous system effects. Structure-activity relations are discussed.

IT 80930-80-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and inflammation inhibition by, structure in relation to)  
RN 80930-80-9 CAPLUS  
CN 4(3H)-Quinazolinone, 3-(4-methylphenyl)-2-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)



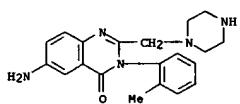
L4 ANSWER 30 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1980:426374 CAPLUS  
 DOCUMENT NUMBER: 93:26374

TITLE: Studies on biologically active halogenated compounds. II. Chemical modifications of 6-amino-2-fluoromethyl-3-(o-tolyl)-4(3H)-quinazolinone and the CNS depressant activities of related compounds  
 AUTHOR(S): Tani, Junichi; Yamada, Yoshihisa; Ochiai, Takashi; Ishida, Ryuichi; Inoue, Ichizo; Oine, Toyonari  
 CORPORATE SOURCE: Res. Lab., Tanabe Seiyaku Co., Ltd., Osaka, S32, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1979), 27(11), 2675-87  
 DOCUMENT TYPE: CODEN: CPBTAL; ISSN: 0009-2363  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 93:26374

AB A number of derivs. of 6-amino-2-fluoromethyl-3-(o-tolyl)-4(3H)-quinazolinone (6-aminomethaquinone), a potent muscle relaxant, were prepared and screened in terms of the loss of righting reflex test and the rotating rod test in mice. Several derivs. with addnl. F substitution or with repositioning of the F atom exhibited high activities. Other structural modification included acylation, carbamoylation, and alkoxycarbonylation of the 6-amino group, hydroxylation at the 3-tolyl group, and replacement of the F atom at the 2-fluoromethyl group by O, N and S nucleophiles; these modification all resulted in loss of activity.

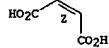
IT 73832-33-4P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TBU (Therapeutic use); BSL (Biological Study); PREP (Preparation); USES (Uses); (preparation and antidepressant activity of)

RN 73832-33-4 CAPLUS  
 CN 4(3H)-Quinazolinone, 6-amino-3-(2-methylphenyl)-2-(1-piperazinylmethyl)-(9CI) (CA INDEX NAME)



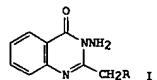
L4 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Double bond geometry as shown.



L4 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1977:601459 CAPLUS

DOCUMENT NUMBER: 87:201459  
 TITLE: New 3-aminoquinazolinones  
 AUTHOR(S): Sauter, Feits; Stanetty, Peter; Jordis, Ulrich  
 CORPORATE SOURCE: Inst. Org. Chem., Tech. Univ. Wien, Vienna, Austria  
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1977), 310(8), 680-2  
 CODEN: ARPHAS; ISSN: 0365-6233  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 87:201459  
 GI

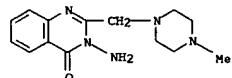


AB Aminoquinazolinones I (R = NEt<sub>2</sub>, piperidino, 2,6-dimethylpiperidino, morpholino, 4-methyl-1-piperazinyl) were obtained in 47-98% yield by treating 2-MeO<sub>2</sub>CC<sub>6</sub>H<sub>4</sub>NHCOCH<sub>2</sub>R (II; R as above) with NH<sub>2</sub>H. II (R = amino) were obtained by chloroacetylation Me anthranilate, iodinating II (R = Cl), and aminating II (R = I).

IT 64689-35-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 RN 64689-35-6 CAPLUS  
 CN 4(3H)-Quinazolinone, 3-amino-2-[(4-methyl-1-piperazinyl)methyl]- (2Z)-2-butenedicarboxylic acid (1:2) (9CI) (CA INDEX NAME)

CH 1

CRN 64689-34-5  
 CHF C14 H19 N5 O



CH 2

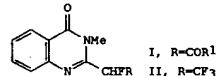
CRN 110-16-7  
 CHF C4 H4 O4

L4 ANSWER 32 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1977:468405 CAPLUS

DOCUMENT NUMBER: 87:68405  
 TITLE: Quinazolinoneacetamides  
 INVENTOR(S): Saito, Seiichi; Tsukamoto, Goro  
 PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JXXXXAF

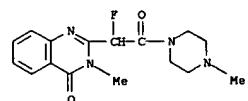
DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51133287	A2	19761118	JP 1975-58404	19750515
PRIORITY APPLN. INFO.:			JP 1975-58404	A 19750515
GI				



AB Quinazolinoneacetamides I (R1 = 1-pyrrolidinyl(O), morpholino, 4-methyl-1-piperazinyl) were prepared by treating II first with amines HRI and then with H<sub>2</sub>O. I have central depressant and antiinflammatory activities (no data). Thus, II was heated with pyrrolidine in glycerol at 80° for 15 h to give 86% I (R1 = Q).

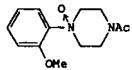
IT 63532-75-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 RN 63532-75-2 CAPLUS  
 CN Piperazine, 1-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)fluoroacetyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 33 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1977:406022 CAPLUS  
 DOCUMENT NUMBER: 87:6022  
 TITLE: Substituted phenyl piperazine N-oxides  
 INVENTOR(S): Fruesse, Wolfgang; Amschier, Hermann; Schoetensack, Wolfgang  
 PATENT ASSIGNEE(S): Byk-Gulden Lomberg Chemische Fabrik G.m.b.H., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 33 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

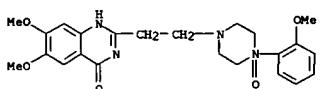
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2638184	A1	19770310	DE 1976-2638184	19760825
			LU 1975-73295	A 19750902

PRIORITY APPLN. INFO.: GI

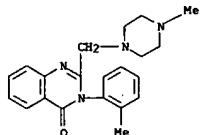


I

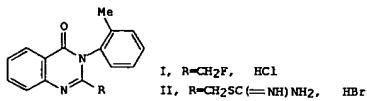
AB Piperazine N-oxides, e.g. I, useful as antihypertensives (no data), are prepared by standard procedures. Thus, treatment of 1-acetyl-4-(2-methoxyphenyl)piperazine with 30% H2O2 in AcOH 2 h at 60° gives 73% I.  
 IT 62845-36-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 62845-36-7 CAPLUS  
 CN 4(1H)-Quinazolinone, 6,7-dimethoxy-2-[2-[4-(2-methoxyphenyl)-4-oxido-1-piperazinyl]ethyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



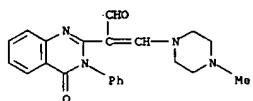
L4 ANSWER 34 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1977:83505 CAPLUS  
 DOCUMENT NUMBER: 86:83505  
 TITLE: Synthesis and central nervous system activity of quinazolones related to 2-methyl-3-(o-tolyl)-4(3H)-quinazolone (methaqualone)  
 AUTHOR(S): Ager, I. R.; Harrison, D. R.; Kennewell, P. D.; Taylor, J. B.  
 CORPORATE SOURCE: Roussel Lab., Covington/Swindon/Wiltshire, UK  
 SOURCE: Journal of Medicinal Chemistry (1977), 20(3), 379-86  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): GI  
 CASREACT 86:83505



AB A series of 71 title compds. was prepared by condensation of acetylanthranilates with the appropriate arylamines, or by bromination of methaqualone (72-44-6) in the 2-Me group followed by displacement of the Br atom with Cl or F, or N, O, or S nucleophiles. Only the 2-fluoromethyl derivative (I) [61555-12-2] or certain isothiouronium salts, e.g., 2-[(3'--(o-tolyl)-4'(3H)-oxoquinazolin-2'-yl)methyl]chlorouronium bromide (II) [61554-89-0], which could be hydrolyzed *in vivo* to the 2-mercaptopentyl derivative, [61555-13-3], had central nervous system depressant activity of the same magnitude as methaqualone. Activity of the compds. in mice was determined by 5 tests, i.e., the loss of righting reflex, rotating drum test, antagonism of convulsions from maximum electroshock and pentyleneetetrazole, and antagonism of writhing from p-benzoquinone. Structure-activity relations are discussed.  
 IT 61554-57-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and central nervous system depressant activity of)  
 RN 61554-57-2 CAPLUS  
 CN 4(3H)-Quinazolinone, 3-(2-methylphenyl)-2-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

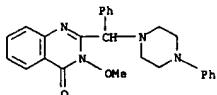
L4 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1973:515526 CAPLUS  
 DOCUMENT NUMBER: 79:115526  
 TITLE: Vilsmeier-Haack reaction. V. Reaction of 2-methyl-4-quinazolone derivatives and a new synthesis of pyrazolo[5,1-b]quinazolones  
 AUTHOR(S): Pandit, R. S.; Seshadri, S.  
 CORPORATE SOURCE: Dept. Chem. Technol., Univ. Bombay, Bombay, India  
 SOURCE: Indian Journal of Chemistry (1973), 11(6), 532-7  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.

AB 2-Methyl-3-phenyl-4-quinazolone underwent diformylation by the Vilsmeier reagent to give the dialdehyde I. I with HOMNH2, H2NNH2, PhNNH2 gave the related 3-phenyl-4-quinazolone derivs. with different heterocyclic systems in the 2-position. On treatment with polyphosphoric acid, I cyclized to give 12-oxoquinolino[2,1-b]quinazoline-6-carbaldehyde (III). Vilsmeier-Haack reaction of 2-methyl-3-amino-4-quinazolone gave 3-formylpyrazolo[5,1-b]quinazolone (III). Various derivs. of III were prepared to investigate the fluorescence properties. Vilsmeier-Haack reaction on 2-methyl-3-acylamido-4-quinazolone also gave III with the loss of acyl residues. 2-Methyl-3-anilino-4-quinazolone reacts with the Vilsmeier reagent to give 1-phenylpyrazolo[5,1-b]quinazolone.  
 IT 49552-39-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 49552-39-8 CAPLUS  
 CN 2-Quinazolinoneacetaldehyde, 3,4-dihydro-a-[(4-methyl-1-piperazinyl)methylene]-4-oxo-3-phenyl- (9CI) (CA INDEX NAME)



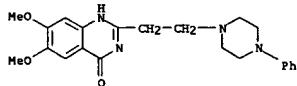
L4 ANSWER 36 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1973:97590 CAPLUS  
 DOCUMENT NUMBER: 78:97590  
 TITLE: Cyclization reactions of O-alkyl o-(acylamino)benzohydroxamates  
 AUTHOR(S): Kohl, Hans; Wolf, Erhard  
 CORPORATE SOURCE: Farwerke Hoechst A.-G., Frankfurt/M., Fed. Rep. Ger.  
 SOURCE: Justus Liebigs Annalen der Chemie (1972), 766, 106-15  
 CODEN: JLACBF; ISSN: 0075-4617  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 GI For diagram(s), see printed CA Issue.

AB Cyclization of O-alkyl o-(acylamino)benzohydroxamates (I) gave 3-alkoxyquinazolinones (II; R = e.g. CH<sub>2</sub>Cl, CHClPh, or CHBrMe; R<sub>1</sub> = Me, CH<sub>2</sub>Ph, or Ph; X = e.g. H, 6-NO<sub>2</sub>, 6-Br, or 7-Cl). Nucleophilic substitution of II with amines, thiourea, dithiocarbamates, or sulfonates gave III (R = H or Ph; R<sub>1</sub> = piperidino, 4-phenyl-1-piperazinyl, S<sub>2</sub>CN<sub>2</sub>Et<sub>2</sub>, SCN, SO<sub>2</sub>CH<sub>2</sub>Me-p; X = H, Cl, or NO<sub>2</sub>).  
 IT 40928-47-0#  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 40928-47-0 CAPLUS  
 CN 4(3H)-Quinazolinone, 3-methoxy-2-[phenyl(4-phenyl-1-piperazinyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L4 ANSWER 37 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 37 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1972:85842 CAPLUS  
 DOCUMENT NUMBER: 76:97592  
 TITLE: Pharmacologically active piperazinylalkyl 4-quinazolinone derivatives  
 INVENTOR(S): Amschler, Hermann; Klemm, Kurt; Schoetensack, Wolfgang  
 PATENT ASSIGNEE(S): Byk-Gulden Lomberg Chemische Fabrik G.m.b.H.  
 SOURCE: Ger. Offen., 54 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2027645	A	1971/209	DE 1970-2027645	19700605
US 3984555	A	1976/1005	US 1971-148100	19710528
AT 317899	B	1974/0925	AT 1973-2442	19710601
AT 318615	B	1974/1111	AT 1971-4705	19710601
AT 318628	B	1974/1111	AT 1973-2441	19710601
CH 557829	A	1970/0115	CH 1971-8020	19710602
CH 558374	A	1975/0131	CH 1974-4500	19710602
CH 569732	A	1975/1128	CH 1974-4501	19710602
GB 1331522	A	1970/0926	GB 1971-18803	19710603
CA 951319	A1	1974/0716	CA 1971-114709	19710603
BE 768137	A1	1971/1206	BE 1971-104283	19710604
NL 7107695	A	1971/1207	NL 1971-7695	19710604
FR 210726	A5	1972/0324	FR 1971-20368	19710604
FR 210726	B1	1975/1010	DE 1970-2027645	A 19700605

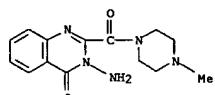
PRIORITY APPLN. INFO.: DE 1970-2027645 A 19700605  
 GI For diagram(s), see printed CA Issue.  
 AB The 33 piperazinoalkylquinazolinones I [R = R<sub>1</sub> = H, CH<sub>3</sub>, R = H, R<sub>1</sub> = Me, R<sub>2</sub> = H, Me, PhCH<sub>2</sub>CH<sub>2</sub>, MeCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>, cyclohexyl; A = CH<sub>2</sub>, (CH<sub>2</sub>)<sub>2</sub>, (CH<sub>2</sub>)<sub>3</sub>, CH<sub>3</sub>, CH:CHCH<sub>2</sub>; R<sub>3</sub> = H, 2-, 3-, or 4-Me, CH<sub>3</sub>, Cl, F, 3-CF<sub>3</sub>, 2-OEt] have hypotensive, antihistaminic, and analgesic properties, but only slight sedative and no anticonvulsive effect. They are prepared by treating a suitably substituted 2-carbamoylanilide with a 1-arylpiperazine and cyclizing. Thus, 14.2 g 2,4-H<sub>2</sub>NO(MeO)CH<sub>2</sub>NHCOCH<sub>2</sub>CH<sub>2</sub>Br in MeCN was treated with 7 g 1-phenylpiperazine and 7.8 g dicyclohexylamine. The product was treated with 2.24 g KOH in MeOH/CH<sub>2</sub>OH to give 78% I [R = R<sub>1</sub> = CH<sub>3</sub>, R<sub>2</sub> = R<sub>3</sub> = H, A = (CH<sub>2</sub>)<sub>2</sub>]. The preparation of 17 intermediates was also given.

IT 35265-45-3  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (pharmacol. of)  
 RN 35265-45-3 CAPLUS  
 CN 4(1H)-Quinazolinone, 6,7-dimethoxy-2-[2-(4-phenyl-1-piperazinyl)ethyl]- (9CI) (CA INDEX NAME)

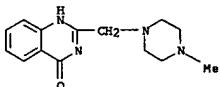
L4 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1971:5531754 CAPLUS  
 DOCUMENT NUMBER: 75:151754  
 TITLE: Synthesis of 3-amino-2-ethoxycarbonyl-4-quinazolone and related compounds. I. Use of diethyl oxalate in quinazolone synthesis  
 AUTHOR(S): George T. Mehta, D. V. Tahilramani, R.  
 CORPORATE SOURCE: CIBA Res. Cent., Bombay, India  
 SOURCE: Indian Journal of Chemistry (1971), 9(8), 755-8  
 CODEN: IJOCAP; ISSN: 0019-5103  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.

AB 3-Amino-2-ethoxycarbonyl-4-quinazolone (I) are prepared by treating anthranilic acid hydrazide with di-Et oxalate at 180°. Reaction of I with Ph isocyanate in toluene gives 2-(ethoxycarbonyl)-3-(N-phenylureido)-4-quinazolone (II) which on cyclization by fusion, under N, at 245° gives 2-phenyl-1,2,3,4-tetrahydro-1,3,6-trioxo-(6H)-1,2,4-triazo[6,1-b]quinazoline (III). Condensation of I with appropriate amines furnishes IV (R=NH<sub>2</sub>, NH<sub>2</sub>, NHCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>, etc.). With aromatic aldehydes, I affords 3-acylidene-2-ethoxycarbonyl-4-quinazolone derivs. (V), e.g., V (R=PhCH<sub>2</sub>NH<sub>2</sub>). Other condensation reactions of I are described.

IT 34127-34-9#  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 34127-34-9 CAPLUS  
 CN Piperazine, 1-[(3-amino-3,4-dihydro-4-oxo-2-quinazolinyl)carbonyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1971:463724 CAPLUS  
 DOCUMENT NUMBER: 75:63724  
 TITLE: Novel class of hypoglycemic agents: syntheses and SAR  
 [sodium absorption ratio] in 2-substituted 4-(3H)-quinazolones, 2-substituted 4-hydroxypoly(methylene) [5,6] pyrimidines, and 3-substituted 4-oxopyrido[1,2-a] pyrimidines  
 AUTHOR(S): Gupta, Chhitar Mal; Bhaduri, Amiya P.; Khanna, Nandoo M.; Mukherjee, Surath K.  
 CORPORATE SOURCE: Div. Med. Chem., Cent. Drug Res. Inst., Lucknow, India  
 SOURCE: Indian Journal of Chemistry (1971), 9(3), 201-6  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.  
 AB The syntheses and SAR in 2-substituted 4-(3H)-quinazolones, 2-substituted 4-hydroxypoly(methylene) [5,6] pyrimidines, and 3-substituted 4-oxopyrido[1,2-a] pyrimidines (I) and (II) are described. Hypoglycemic activity of these compds. is associated with the cyclic amide moiety stimulated in their mol. structure. The principal and auxopharmacophores responsible for the blood sugar lowering effect are also described.  
 IT 19062-52-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 19062-52-3 CAPLUS  
 CN 4(1H)-Quinazolinone, 2-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 41 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1970:520669 CAPLUS  
 DOCUMENT NUMBER: 73:120669  
 TITLE: 4-Quinazolinone-2-carboxylic acid, its salts, esters, and other derivatives  
 PATENT ASSIGNEE(S): Ferlux  
 SOURCE: Fr., 7 pp.  
 CODEN: FRXXAK  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1584579	A	19691226	FR 1968-158418	19680709
DE 1932455	A	19700910	DE 1969-1932455	19690626
CH 518289	A	19720131	CH 1969-518289	19690627
BR 735805	A	19700108	BR 1969-735805	19690708
NL 6910451	A	19700113	NL 1969-10451	19690708
ES 369518	A1	19710716	ES 1969-369518	19690708
PRIORITY APPLN. INFO.:			FR 1968-158417	A 19680709
			FR 1968-158418	A 19680709

GI For diagram(s), see printed CA Issue.  
 AB The title compds. (I) were prepared via the intermediate esters obtained by condensation of an anthranilamide with an oxalate. Thus, o-H2NC6H4CONH2 and (CO2Et)2 was stirred 6 hr at 170-80° and treated with hot absolute alc. at 75-80° to give 81% I (R = Et, R' = H) (II). Treatment of II with 5% NaOH and acidification with HCl gave I (R = R' = H) (III). III and N-methylpiperazine was refluxed 2 hr in absolute alc. to give 65% I (R = N(Me)2, R' = H). Similarly obtained were I [R' = H, R = NEt2, N(Ph)Et, morpholino, cyclo-C6H11(CHMe2)2N, NCH2CH2CH2NH2 (H11C6-cyclo), HNC(CHMe2)2]. Anhydrous MeOH containing Na was stirred 1 hr with III to give

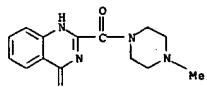
98% I (R = Na, R' = H).

IT 29113-35-7P

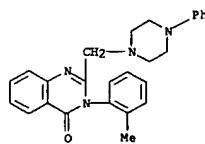
RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 29113-35-7 CAPLUS

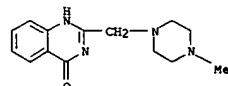
CN Piperazine, 1-[(1,4-dihydro-4-oxo-2-quinazolinyl)carbonyl]-4-methyl- (8CI, 9CI) (CA INDEX NAME)



L4 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1971:99978 CAPLUS  
 DOCUMENT NUMBER: 74:99978  
 TITLE: Synthesis in the 2-aminomethyl-3-(2'-tolyl)-4-quinazolone  
 AUTHOR(S): Kozhevnikov, Yu. V.; Petyunin, P. A.; Kharchenko, N. E.; Grishina, V. M.  
 CORPORATE SOURCE: Perm. Farm. Inst., Perm, USSR  
 SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1970), 4(11), 22-5  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 GI For diagram(s), see printed CA Issue.  
 AB The title compds. are synthesized as potential hypnotics and anticonvulsives. I [(NR2)-morpholinol] is prepared from 2-chloromethyl-3-(2-tolyl)-4-quinazolone and morpholine in MePh by boiling 2 hr. An addnl. 11 analogs are prepared  
 IT 31167-09-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 31167-09-6 CAPLUS  
 CN 4(3H)-Quinazolinone, 2-[(4-phenyl-1-piperazinyl)methyl]-3-o-tolyl- (8CI) (CA INDEX NAME)



L4 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1968:427405 CAPLUS  
 DOCUMENT NUMBER: 69:27405  
 TITLE: Drugs acting on the central nervous system. Syntheses of substituted quinazolinones and quinazolines and triazepino- and triasocinquazolinones  
 AUTHOR(S): Gupta, C. M.; Bhaduri, A. P.; Khanna, N. M.  
 CORPORATE SOURCE: Div. Med. Chem., Cent. Drug Res. Inst., Lucknow, India  
 SOURCE: Journal of Medicinal Chemistry (1968), 11(2), 392-5  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.  
 AB 2,3-Disubstituted 4-quinazolinones, 2,4-disubstituted quinazolines, and 5H-2,3-disubstituted triazepino[1,4,5][2,1-b]-quinazolin-11-ones (I) (R = 2-furyl, Ph, Me, and p-MeOC6H4) are prepared and tested for toxicity and anticonvulsant activity in mice. Of the 48 compds. prepared and tested, only 2-ethylthio-4-quinazolone and 2,4-bis(dibenzylamino)quinazoline gave protection against maximum electroshock. 3 other compds. showed slight activity, and the remainder were inactive.  
 IT 19062-52-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 19062-52-3 CAPLUS  
 CN 4(1H)-Quinazolinone, 2-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 43 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1965:91000 CAPLUS

DOCUMENT NUMBER: 62:91000

ORIGINAL REFERENCE NO.: 62:16269a-g

TITLE: 4(3H)-Quinazolinones

PATENT ASSIGNEE(S): Farwerke Hoechst A.-G.

SOURCE: 18 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6405448	-----	19641119	NL	-----

PRIORITY APPLN. INFO.: DE 19630518

GI For diagram(s), see printed CA Issue.

AB I, analgesics and sedatives, are readily prepared by treatment of an o-chloroalkylamidobenzamide with a secondary amine at high temps. and by the pyrrolic or alkaline condensation of an o-aminalkylamidobenzamide. Accordingly, I [n = 1 R1 = Me, (R2R3 =) (CH2)2NMe(CH2)2, R4 = 6-Cl] (II), m. 158.5-9.5° (Me2CO), was obtained by heating at 225-30° for 30 min. N-methyl-5-chloro-2-(N-methylpiperazinoacetamido)benzamide, prepared by the treatment of N-methyl-5-chloro-2-chloroacetamidobenzamide with an excess of N-methylpiperazine. II, 2HCl, decompose 260°, was prepared by the addition of alc. HCl to II in MeOH. I (n = 1, R1 = R2 = R3 = Me, R4 = 6-Cl), m. 91.5-5.5° (HCl salt decompose 257°), was obtained by refluxing 7 g. N-methyl-5-chloro-2-dimethylaminoacetamidobenzamide in 52 ml. EtOH after the addition of 26 ml. 2N aqueous NaOH for 20 min. Similarly, the tabulated I were also prepared

IT 2854-63-9, 4(3H)-Quinazolinone, 6-ethoxy-3-methyl-2-[(4-methyl-1-piperazinyl)methyl]- (preparation of)

RN 2854-63-9 CAPLUS

CN 4(3H)-Quinazolinone, 6-ethoxy-3-methyl-2-[(4-methyl-1-piperazinyl)methyl]- (7CI, 9CI) (CA INDEX NAME)

